

Datasheet for 600-102-200**GST Antibody Fluorescein Conjugated****Overview**

Description:	Anti-GST (GOAT) Antibody Fluorescein Conjugated - 600-102-200
Item No.:	600-102-200
Size:	1 mg
Applications:	ELISA, WB
Reactivity:	GST-Tag
Host Species:	Goat

Product Details

Background:	Rockland produces a wide range of GST antibodies in our laboratories. Select GST antibodies from several monoclonal and/or polyclonal GST antibodies listed below. Select appropriate GST antibodies for your research by isotype, epitope, applications and species reactivity. GST (Glutathione-S-Transferase) is a protein expression tag commonly used in molecular biology. Anti-GST will react with synthetic construct present in most known GST containing cloning or expression vectors. GST is responsible for the conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. The amino acid sequence GST is highly conserved in most organisms including mammals. GST exists as a 26 kDa homodimer.
Synonyms:	goat anti-GST antibody FITC conjugation, fluorescein conjugated goat anti-GST antibody, Glutathione-S-Transferase, GST antibody, anti-GST antibody, anti-Glutathione-S-Transferase antibody
Host Species:	Goat
Conjugate:	Fluorescein (FITC)
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	3.7

Target Details

Reactivity:	GST-Tag
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Immunogen Type:	Native Protein
Immunogen:	Glutathione-S-Transferase [Schistosoma japonicum]
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using GST coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-fluorescein, anti-Goat Serum as well as purified and partially purified Glutathione-S-Transferase [Schistosoma japonicum]. Cross reactivity against Glutathione-S-Transferase from other sources may occur but has not been specifically determined.

Application Details

Suggested Applications:	ELISA, WB (Based on references)
Application Note:	This product is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FLISA:	>1:20,000
IF:	1:500 - 1:2,500
WB:	>1:10,000

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

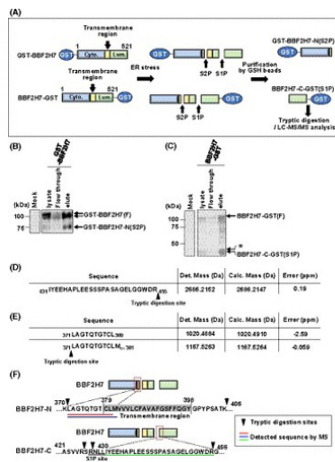
Shipping & Handling

Shipping Condition:	Ambient
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Storage Condition: Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Analysis of the cleavage sites of BBF2H7 by liquid chromatography-tandem mass spectrometry (LC-MS/MS). A, Schema of the LC-MS/MS analysis for the determination of the cleavage sites of BBF2H7 using glutathione S-transferase (GST)-tagged constructs. B, C, Western blot analysis for the purified BBF2H7 tagged with GST in its N-terminus (GST-BBF2H7-N) (B) and in its C-terminus (BBF2H7-C-GST) (C). GST-BBF2H7(F): full length of GST-BBF2H7, GST-BBF2H7-N (S2P): N-terminal fragment of GST-BBF2H7 cleaved by S2P, BBF2H7-GST(F): full length of BBF2H7-GST, BBF2H7-C-GST (S1P): C-terminal fragment of BBF2H7-GST cleaved by S1P, asterisk: C-terminal fragment of BBF2H7-GST cleaved by S2P. D, E, Identified sequences for the BBF2H7-C-GST (D) and the GST-BBF2H7-N (E) by LC-MS/MS analysis. Det. Mass: determined molecular mass, Calc. Mass: calculated molecular mass, Mox: oxidized methionine. F, Location of detected sequences from GST-tagged BBF2H7 by LC-MS/MS analysis. Arrow heads indicate tryptic digestion sites. Red and blue lines and green line indicate peptide sequences detected by the LC-MS/MS analysis of GST-BBF2H7-N and BBF2H7-C-GST, respectively. Transmembrane region of BBF2H7 is highlighted in gray. Fig 2. PMID: 31914686

References

- Mester S et al. Extended plasma half-life of albumin-binding domain fused human IgA upon pH-dependent albumin engagement of human FcRn in vitro and in vivo. *Mabs*. (2021)
- Matsuhisa K et al. Production of BBF2H7-derived small peptide fragments via endoplasmic reticulum stress-dependent regulated intramembrane proteolysis. *FASEB J*. (2020)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.